

/ Descriptions

Glass Passivated Bridge Rectifiers, Reverse Voltage:50~1000V,Forward Current:25A,GBJ package.

/ Features

PCB UL 94V-0

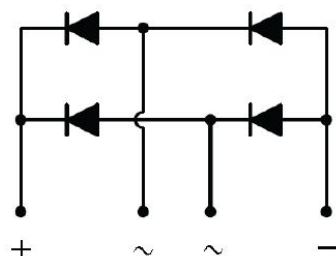
Ideal for printed circuit board, Case material molded plastic, The plastic material has U/L flammability classification 94V-0. Halogen free product.

/ Applications

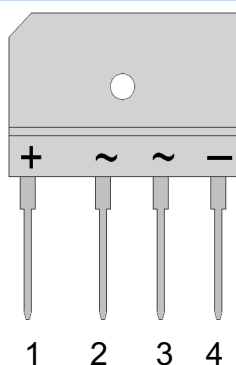
一般用途.

General purpose.

/ Equivalent Circuit



/ Pinning



PIN1 DC+ PIN2 AC PIN3 AC PIN4 DC-

/ h_{FE} Classifications & Marking

See Marking Instructions.



Parameter	Symbol	GBJ 25005G	GBJ 2501G	GBJ 2502G	GBJ 2504G	GBJ 2506G	GBJ 2508G	GBJ 2510G	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (with heatsink Note 2)	$I_{F(AV)}$	25							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	300							A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	374							A^2s
Typical Junction Capacitance Per Element (Note1)	C_J	94							pF
Typical Thermal Resistance (Note2)	$R_{\theta Jc}$	1.1							$^{\circ}C/W$
Operating Temperature Range	T_j	-55 to +150							$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 to +150							$^{\circ}C$

NOTE:

- 1.Measured at 1.0MHz and applied reverse voltage of 4V.
- 2.Device mounted on 150mm*150mm*1.6mm Cu Plate as heatsink.

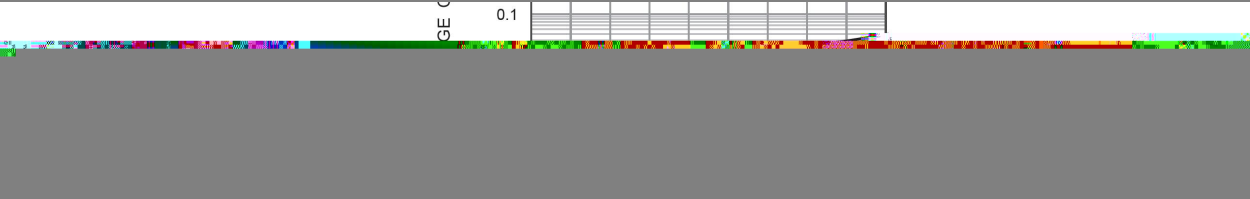
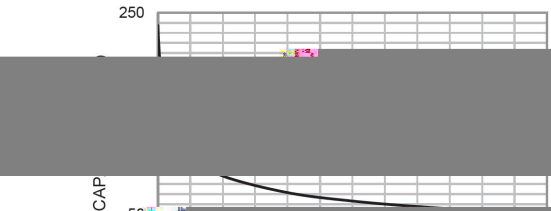
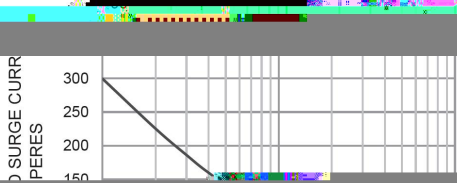
Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Forward Voltage	V_F	$I_F=12.5A$	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^{\circ}C$	5.0	μA

/ Electrical Characteristic Curve

FIG.1-FORWARD CURRENT DERATING CURVE

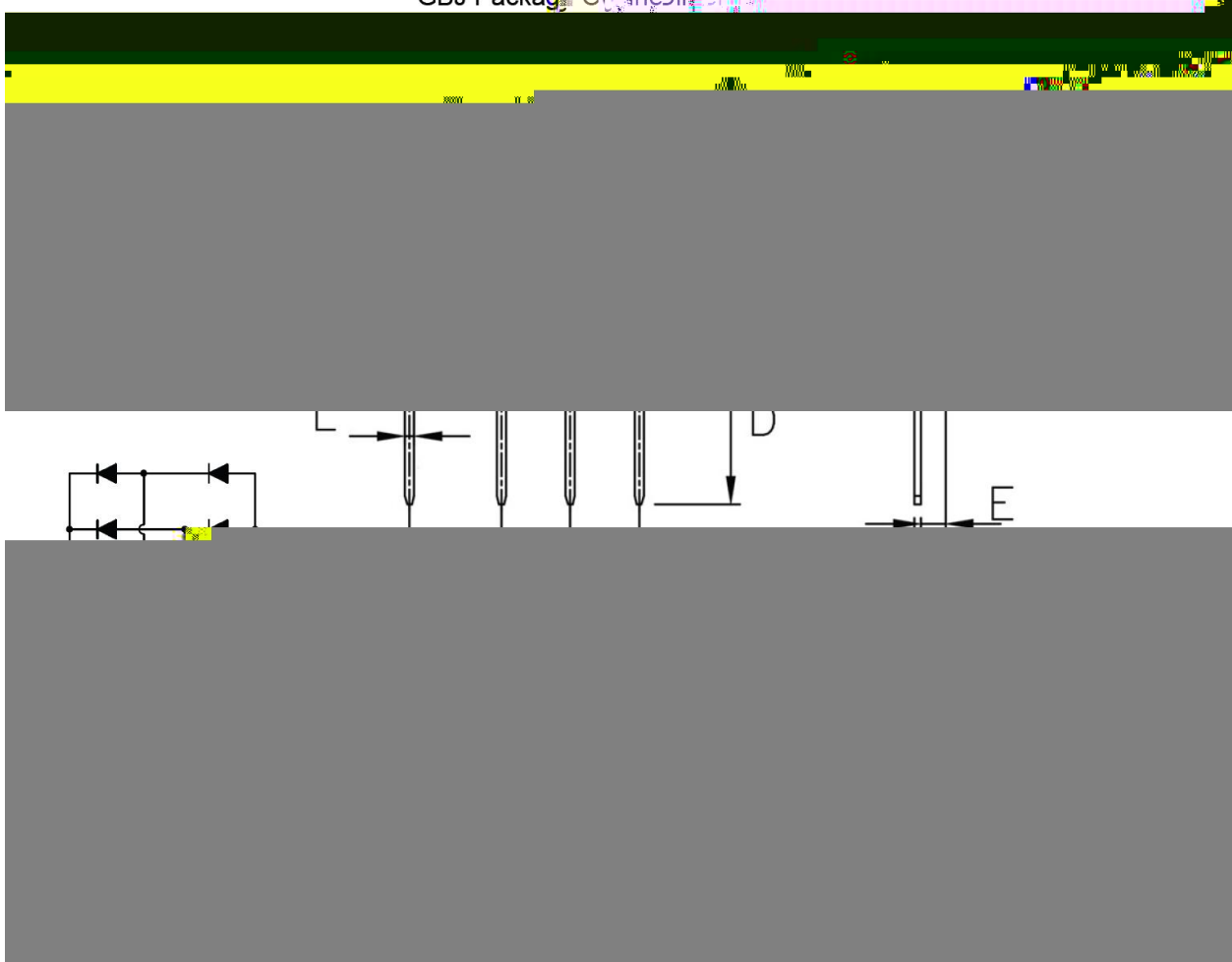


FIG.2-MAXIMUM FOWARD SURGE CURRENT

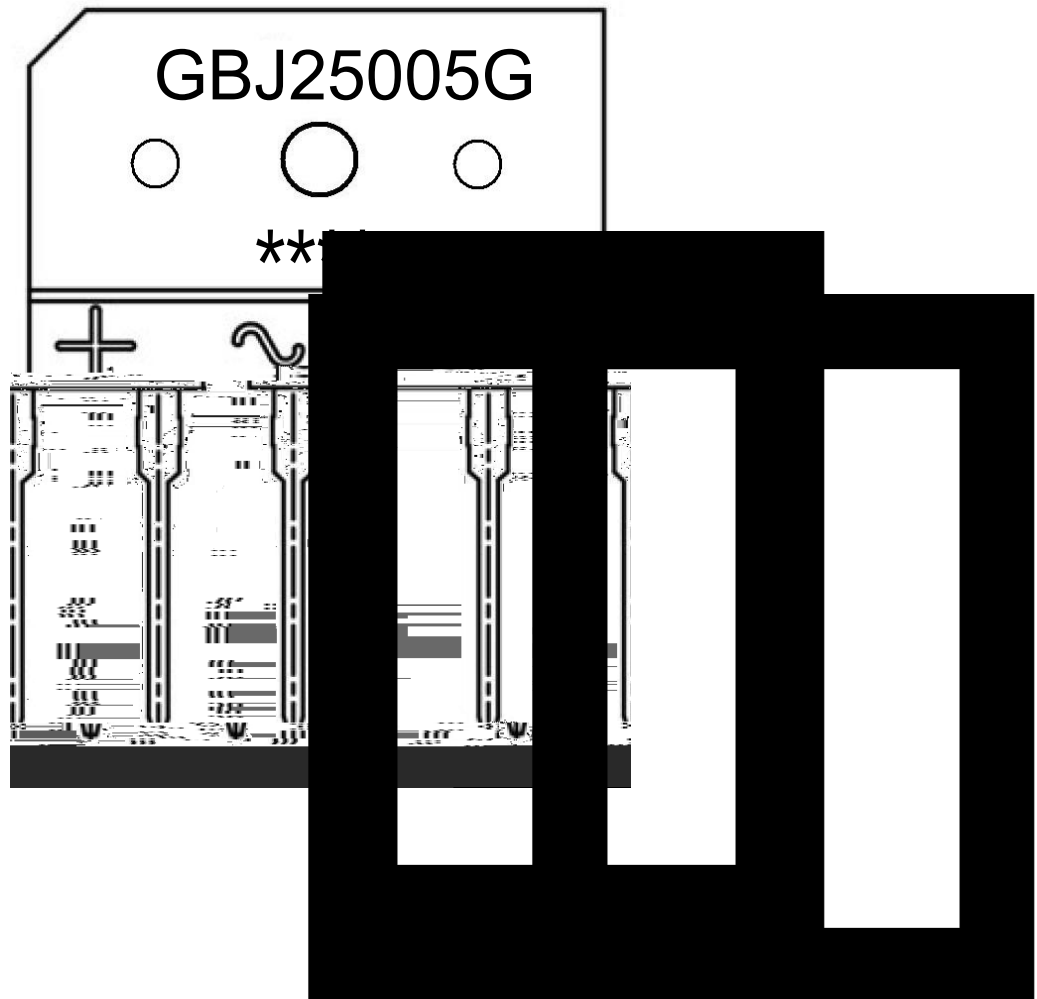


/ Package Dimensions

GBJ Package Outline Dimensions



/ Marking Instructions



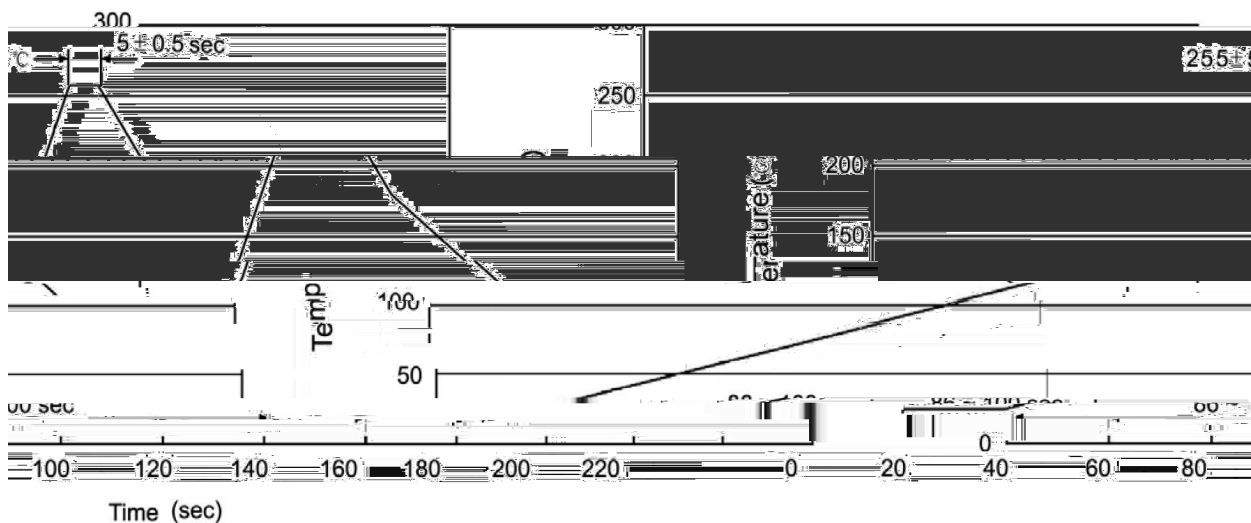
GBJ25005G:

Product Type.

****.

Lot No. Code, code change with Lot No.

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-----|-----|----|---------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255 | 5 | 5 | 0.5sec; | 2.Peak Temp.:255 5 , Duration:5 0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

270 5 10 1 sec. Temp.:270±5℃ Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
GBJ	-	-						

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
GBJ								

/ Notices